



# **Zegat Online IT-Hardware Ordering System**

**Software Requirement Specification (SRS)**

**Document**

**Sprint 2 Implementation**

**Project Timeline: 07.09.2022 to 23.09.2022**

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## 1. Introduction: -

Zegat online it-hardware Ordering Website is a supermarket that allows online web applications for automating the process of ordering. You can conveniently use your computer to place your order online. You can select your choice of item from the IT-hardware ordering system. Once you have finalized your order, then you can place the order. When you are satisfied with the order, service, and quality, then you pay cash on the spot upon delivery.

**1.1 Purpose:** The purpose of this project is to allow the customer to buy the IT-Hardware items from the online store and to save all the purchase and product details into the file. The project is divided into three modules: Admin module, Supplier module, Customer module.

**1.2 Scope:** This project can be implemented into any IT-Hardware shop into the locality which can accept the orders 24/7. In the future, we can add a home delivery feature which will make our project more flexible. With the help of our system, the customer can easily purchase the items.

- **Glossary and references:**

**References:**

- Prof. Prakash Biswa( Mentor)
- <https://www.w3schools.com/cpp/>
- <https://www.geeksforgeeks.org/c-plus-plus/>
- <https://www.tutorialspoint.com/cplusplus/index.htm>

- **Intended audience:**

- Admin
- Supplier
- Customer

## 2. Overall Description:

The Online IT Hardware Ordering System is a web application that consists of three modules: Admin module, Supplier module and Customer module. The admin module can view, edit, update or delete the supplier details, maintain the stock database for products, and generate various reports. Supplier module can edit supplier details, can add the product, remove the product, can view the supplied product done by him, can view sale reports and can check payment status. Customer can view the product list and continue the shopping by entering his/her name, mobile number and unique customer id and he/she can order a maximum of three products.

## **2.1 User needs: -**

The project aims to save the time of the customer by providing the online facility for shopping. He can view the product list as well as the quantity available for the product. He has to enter his name, mobile number and unique customer id to continue shopping. He can order a maximum of 3 products along with quantity by entering product code viewed in the product list. The customer can also give suggestions through an option which is available on the customer menu.

## **2.2 Assumptions and dependencies: -**

- Users should have Ubuntu Linux installed.
- Users should have a minimum 4GB RAM.
- The service is available on a desktop or laptop.

## **3. Detailed Features and Requirements: -**

### **3.1 Functionality: -**

**3.1.1 Admin Module:** The admin module is one the main components of the Zegat Online IT-Hardware Ordering system. Admin will have login details and after entering the login details he/she can access the features. Admin module provides the following features:

**3.1.1.1 ZOIHO\_01>edit\_supplier->**Admin can edit the details of any supplier like their Name, mobile number and address.

**3.1.1.2. ZOHIO\_02>remove\_supplier->**Admin can remove any supplier from the list.

**3.1.1.3 ZOIHO\_03->view\_supplier\_list->** .Admin can view the list of all the suppliers.

**3.1.1.4 ZOIHO\_03>-edit\_customer->**Admin can edit the details of any customer like their Name, mobile number and address.

**3.1.1.5 ZOHIO\_05->remove\_customer->**Admin can remove any customer from the list.

**3.1.1.6 ZOHIO\_06->view\_customer\_list->**Admin can view the list of all the customers.

**3.1.1.7 ZOHIO\_07->add product->**Admin can add the product to any supplier by entering the supplier ID.

**3.1.1.8 ZOHIO\_08->edit\_product->**Admin can edit the details of any product by entering the product ID.

**3.1.1.9 ZOHIO\_09->remove\_product->**Admin can remove any product by entering the product ID.

**3.1.1.10 ZOHIO\_10->view\_product\_list->**Admin can view the list of all the products.

**3.1.1.11 ZOIHO\_11->top\_3\_product->** Admin can view the top 3 products report which are sold the most.

**3.1.1.12 ZOIHO\_12>order\_stock->** In this function, If the stock is out of range, then the admin can order the stock.

**3.1.1.13 ZOIHO\_13>stock\_report->** In this function, it will display the total stock.

**3.1.1.14 ZOIHO\_15->view\_transactions->**Admin can view transaction reports on a daily basis.

**3.1.2 Supplier Module:** A supplier module is one of the main module of the Zegat Online IT-Hardware Ordering system which provides the following features:

**3.1.2.1 ZOIHO\_15->register\_supplier->** The supplier can register by providing his/her basic info like name, address or Mobile no. etc on our Zegat Online IT-Hardware Ordering System.

**3.1.2.2 ZOIHO\_16->login\_supplier->** The supplier can login using supplier Id and can access the supplier features.

**3.1.2.3 ZOIHO\_17>edit\_supplier\_details->** The supplier can edit his basic info like his name, address or mobile no. etc and it will get updated into the supplier database.

**3.1.2.4 ZOIHO\_18>view\_supplier->** The supplier can view the details entered by him.

**3.1.2.5 ZOIHO\_19->products\_supplied->** This function will give the product which is supplied to the customer.

**3.1.2.6 ZOHIO\_20->add\_product->**Supplier can add the product by giving the information like product name,units,cost of each items.

**3.1.2.7 ZOHIO\_21->edit\_product->**Supplier can edit the product after the product is being supplied.

**3.1.3 Customer module:** The customer module provides following

features.

**3.1.3.1 ZOHIO\_22->register\_customer->** New customer can register by providing details like Name,address and mobile number.

**3.1.3.2 ZOHIO\_23->login\_customer->**Customers can login by entering his customer ID to continue shopping.

**3.1.3.3 ZOIHO\_24>view\_transaction\_history->**Customers can view all his previous transactions by this function.

**3.1.3.4 ZOIHO\_25->edit\_customer\_details->**Customers can edit his details like Name, mobile number and details.

**3.1.3.5 ZOIHO\_26->view\_items->**Customer can view all the items which is supplied by the supplier and can order from them.

**3.1.3.6 ZOIHO\_27->-place\_order->**The customer can place order by entering the product ID and no of units he wants to purchase.After placing the order,bill will be generated.

**3.1.3.7 ZOHIO\_28->view\_customer->**The customer can view the details of himself.

## **3.2 Non-Functional Requirements: -**

- **Availability:** The system is available online for 24/7.
- **Security:** The admin corner of the system is available only when the admin logins with a valid password.
- **Complexity:** Since the shopping process is online multiple requests might come at the same time for the same product which might lead to a

concurrency problem. So we have used proper mechanisms to prevent concurrency issues.

- **Correctness:** The item requested by the consumer should be available in the stock
- **Maintainability:** The admin should maintain suppliers details from the supplier's database which include editing, removing and viewing the details of all suppliers.
- **Design Constraints:** The system is built using only C++ language. So the constraints of C++ language are applied to it.
- **Usability:** Zegat Online IT-Hardware Ordering System is used to provide the online shopping facility. Admin manages the supplier details and updates the IT-Hardware items. Supplier provides all the IT-Hardware items to the admin. Customer places the order and pays the cash at the time of delivery.

### 3.3 System Requirements: -

#### 3.3.1 Tools to be used:

- C++ File Handling.
- C++ Language.
- Putty/SSH.
- GDB.
- Valgrind.
- Cppunit.
- Cloud Service